

Fenya Savage Mantell

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EDUCATION

Tufts University School of Engineering

Medford, MA

Bachelor of Science in Mechanical Engineering

GPA: 3.45

Relevant Coursework (As of Spring 2025 semester)

- Thermodynamics, Fluid Mechanics, Mechanics (Statics and Dynamics), Materials and Manufacturing
- Calculus I-III, Differential Equations, Numerical Methods, Discrete Mathematics
- Programming for Engineering, Methods for Human Factors Engineering

Engineering Skills

- SolidWorks CAD, Matlab, Java, Python, FEA, Manufacturing (bandsaw, water jet cutter, laser cutter, drills, 3D printing, injection molding, strip heater)

Prospective Graduation: June 2027

Somerville High School

2019 - 2023

High School Diploma

Somerville, MA

GPA: 4.0 (Unweighted); 4.6 (Weighted)

Rank: 9/275

Class Treasurer (2020 - 2023), National Honors Society, Varsity Soccer

WORK EXPERIENCE

IDEA Lab

Sept 2024 - Present

Researcher and Engineer (Mechanical Team)

Medford, MA

- Worked alongside other engineers in designing practical and user-friendly spatial system that leverages sonification to empower individuals with visual impairments to navigate their surroundings effectively.
- Redesigned physical housing system for electrical components of device and physical mounting system for better wearability.
- Received IRB certification for human testing.

Koreana

Oct 2022 - June 2023

Hostess

Cambridge, MA

- Facilitated communication with patrons and other staff members. Managed constant flow of incoming customers and reservations (200+ daily). Acted as primary contact with guests and third-party delivery drivers.

Teen Empowerment

Oct 2020 - May 2021

Youth Organizer

Somerville, MA

- Organized and did outreach for meetings (20+ people) involving equity in student discipline practices and school schedules. Collaborated in research and drafting speeches, successfully advocating for changes in local school policy.

VOLUNTEER WORK

Local Climate Activism

- Sunrise Somerville
- Somerville Climate Coalition

Tutoring

- Math and science tutor for middle school

SKILLS

Microsoft Office, Spanish (Intermediate), Korean (Beginner), Writing, Customer Service